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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,138	09/08/2003	Kimikazu Matsumoto	8005-1006-1	8662
466	7590	10/19/2004	EXAMINER	
YOUNG & THOMPSON 745 SOUTH 23RD STREET 2ND FLOOR ARLINGTON, VA 22202			NGO, HUYEN LE	
			ART UNIT	PAPER NUMBER
			2871	

DATE MAILED: 10/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/656,138

Applicant(s)

MATSUMOTO ET AL.

Examiner

Julie-Huyen L. Ngo

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☒ Claim(s) 1-11 are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All    b) ☐ Some \*    c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |  |
|---|--|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____  |

## DETAILED ACTION

### *Election/Restrictions*

This application contains embodiments directed to the following patentably distinct species of the claimed invention:

A. The species of First embodiment drawn to an active matrix liquid crystal display comprising a liquid crystal layer having a nonzero initial alignment angle relative to the common longitudinal axis; and a thin film transistor having a source electrode and a drain electrode being arranged and adapted so that an electric field generated between said source and drain electrodes is one of substantially parallel to and perpendicular to the non-zero initial alignment angle (claims 1-8).

B. The species of Second embodiment drawn to an active matrix liquid crystal display comprising the liquid crystal layer having first initial alignment angle relative to the common longitudinal axis, a thin film transistor having a source electrode and a drain electrode adjacent to a first part of said liquid crystal layer having second initial alignment, said source and drain electrodes being arranged and adapted so that an electric field generated between said source and drain electrodes is one of substantially parallel to and perpendicular to the non-zero initial alignment angle (claims 9-10).

C. The species of Third embodiment drawn to an active matrix liquid crystal display comprising a pixel electrode and a common electrode that each have a V-shape with two legs, a liquid crystal layer having a non-zero initial alignment angle relative to each of the legs of the V-shaped electrodes and a thin film transistor having a source

electrode and a drain electrode being arranged and adapted so that an electric field generated between said source and drain electrodes is one of substantially parallel to and perpendicular to the non-zero initial alignment angle (claim 11).

The above three species A-C contain embodiments directed to the following patentably distinct subspecies of the claimed invention:

(I) Claim 2 drawn to source and drain electrodes has facing edges that are parallel to each other and perpendicular to the non-zero-initial alignment angle.

(II) Claim 3 drawn to source and drain electrodes each have opposing sides that are parallel to each other and parallel to the non-zero-initial alignment angle.

(III) Claim 4 drawn to an island of amorphous silicon has opposing sides that are parallel to each other and perpendicular to the non-zero-initial alignment angle.

(IV) Claim 5 drawn to source and drain electrodes have facing edges that are parallel to each other and parallel to the non-zero-initial alignment angle.

(V) Claim 6 drawn to source and drain electrodes is substantially parallel to the non-zero initial alignment angle and island of amorphous silicon has opposing sides that are parallel to each other and perpendicular to the non-zero-initial alignment angle.

(VI) Claim 7 drawn to the common longitudinal axis of said pixel and common electrodes is parallel to the data lines.

(VII) Claim 8 drawn to the common longitudinal axis of said pixel and common electrodes is transverse to the data lines.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, there is no generic claim.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims and any drawings readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

***Conclusion***

Since an election to the restriction is required, a SHORTENED STATUTORY PERIOD for response to this action is set to expire ONE (1) MONTH or THIRTY (30) DAYS, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. §133). Extension of time may be obtained under the provisions of 37 CFR 1.136(a).

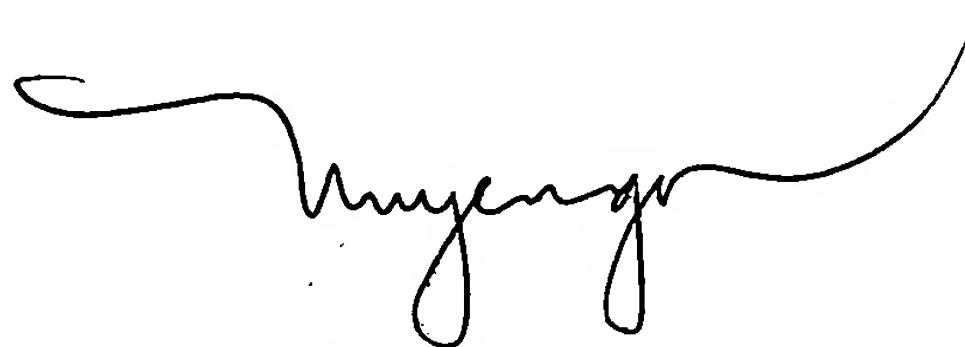
***Contact Information***

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Julie-Huyen L. Ngo whose telephone number is (571) 272-2295. The Examiner can normally be reached on T-Friday.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Mr. Robert H. Kim can be reached at (571) 272-2293.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1562.

October 15, 2004



***Julie -Huyen L. Ngo***  
***Patent Examiner***  
Art Unit 2871